

Sequence alignment: Beta amylase form US 09/744825 and betaamylase from sweet potato (Yoshida, Acc: D12882.1)

Only coding sequences are compared.

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Alignment **bataamy.msf** am 30.4.2003 → Output v. **bataamy** kann markiert werden und mit Copy-Paste in Word 2000 (Nicks Compi) hineingefügt werden.

ClustalW 1.8 Parameters → fast pairwise alignment followed by multiple alignment	MView Parameters (output)
ktuple=2 topdiags=4 pairgap=5 gapopen=10 gapext=5 maxdiv=40 transitions: unweighted ruler: on coloring: identity threshold: 80 width: 50 consensus: off consensus coloring: identity consensus threshold: 100 consensus gaps: on consensus ref: 1 colormap: D_plain colorfile: -colorfile D_plain.map cons. colormap: -con_colormap D_plain	dnamatrix: IUB consensus ignore: singleton

Identities computed with respect to: (1) US09744852

Colored by: identity + property



US09744852	100.0%		351	TGATGCCGTTGGATAGTGTGAAAATGGATCATACTGT	4 400
Yoshida	54.9%			TGCTCCCGTGGAGTGTGAATGCCGACAATGTTTCGGACAAACAG	
US09744852	100.0%		401	AAGGCGATGAATGCCGAGTTACAGGCCTTGAAGAGCGCCGGTGTG	450
Yoshida	54.9%			GAAGAAGGTG - GAAGATGAGCTGA - AGCAGGTGAA - AGCAGGGGGTGCATG	
US09744852	100.0%		451	GGATTATGATGGATGTTGGTGGGGATTGGTGGAGAGAGATGCCCGGGA	5 500
Yoshida	54.9%			GGGTGATGGATGGATGTTGGGGATCATCGAGGCCAAGGCCAAG	
US09744852	100.0%		501	GAGTATAATTGGGGCGGTTATGCTGAGCTTATGAAATGGCGAAAAAAC	550
Yoshida	54.9%			CAGTACGATTGGTCTGCTTACAGGGAGTTATCCAGTGTGTTAACAAATG	
US09744852	100.0%		551	TGGACTCAAAGTTCAAGCTGTGATGTCTTCCATCAATGTGGTGGAAACG	6 600
Yoshida	54.9%			TGGGCTCAAAATCCAGGCGATCATGTCTTICACCAATGCCGCGCAATG	
US09744852	100.0%		601	TCGGTGATTCCCTGCACCGATCCCTCTTCCAAGGGGGTTGGAGGAGATG	650
Yoshida	54.9%			TCGGCGACGCCGTCTCATCCCCATCCCTCAATGGATTCTCAAATCGGC	
US09744852	100.0%		651	GAGAAGGATCCAGATCTGCATACACAGATCAGTGGGGAGGAGGAATT	7 700
Yoshida	54.9%			GACAAAAACCCCGATACTCTTACACACCAACCAGGGCCGCTAACCGAAACCA	
US09744852	100.0%		701	TGAATATGATCGCTGGTTGCGATACACTTCAGTTCTAAAGGAAGGA	750
Yoshida	54.9%			GGACTACCTCTCTCGCGTCAACGTCTTCCAGGCCCGCA	
US09744852	100.0%		751	CTCCTGTCCAATGCTATTCTGATTCATGAGAGGGTTAGAGATAGATT	8 800
Yoshida	54.9%			CCGCTCTCGAGATG-TACAGGATTTCATGAAAGTTCAAGGATAATA	
US09744852	100.0%		801	TGAGAATCTCCT---ACG-TGACACCATTTGTAAGGAAATTCAAGTCGGGATG	850
Yoshida	54.9%			TGGCGACATTGAGCTGGAGATATTGTAGACATTGAAGTAGGGTGT	
US09744852	100.0%		851	GGTCCAGCTGGAGAGCTCCGTATCCATCCTATCCGGAAAAGATGGAGT	9 900
Yoshida	54.9%			GGGGCTGCCGGAGAGCTCGCTATCCCTCGTATCCCGAGA-CTCAAGG	
US09744852	100.0%		901	ATGGAAATTCCCTGGAATTGGTGCTTTCAAGTGTATGACAAGTACATGA	950
Yoshida	54.9%			ATGGGTTITCCCGGCATCGGAGATTTCAGTGATATGACAAGTACATGG	
US09744852	100.0%		951	TCAGTAG-CTTACAGGGTGCAGCAGAACGTTT-TGGTAAGCCTGAATGGG	0 1000
Yoshida	54.9%			TG-GCAGACTGGAAGGAGGCTGT-GAAGCAAGCTGGCAATCCAGA-TTGG	
US09744852	100.0%		1001	GACACACCGGTCCAACCGATGCTGGTCAGTACAACAATTGCCAGAACGAT	1050
Yoshida	54.9%			GAGATGCCGG-AAAAGGCACCGGACTTACAACGACACGCCGGACAAG	
US09744852	100.0%		1051	ACCAAATTTCAGAAGGAAGGTGGATGGGATAGTCATAATGGGAA	1 1100
Yoshida	54.9%			ACGGAATTCTTCC-GCCAAACGGGACTTACAAGACGG--ATATGGGCA	
US09744852	100.0%		1101	-GTTCTTCCACTTGGTATTCTGAGATGCTTTGAACCATGGTGAGAGG	1150
Yoshida	54.9%			AGTTTTCTTGACCTGGTACTCCAACAAGCTCATGATCCATGCCGATCAA	
US09744852	100.0%		1151	ATACTGCAATCAGCCAAGGCGATATCGAGGACAAGGGTGTAAAGATT	2 1200
Yoshida	54.9%			GTCCCTCGAAGAACCAACAAAGTTTCGTTGGCTCCCGCTAACATAGC	
			1201		: 1250

US09744852	100.0%	AGTTAAGATTGCAGGTATTCACTGGCACTATGGAACAAGGTC	-CCATGC		
Yoshida	54.9%	TGCCAAAGTTCTGGATTCACTGGTGTAA	-CAACCATGTGACCCATGC		
		1251	3 1300		
US09744852	100.0%	CCCTGAGCTGACCGCTGGATACTACAACAC	-CCGTAACCGAGATGGTTA		
Yoshida	54.9%	GGCGGAGCTCACCGCCGGATCTACAAATGTGGCGGGAA	-GAGACGGTTA		
		1301	: 1350		
US09744852	100.0%	CCTTCCCCTCGCCCAAATGCTGCCGCCACGGTGCAGTTTCAACTCTA			
Yoshida	54.9%	TCCGCCCTATTGCCAGGATGCTGGCAAGGCCACCATGCCACTCTCAATTTCAT			
		1351	4 1400		
US09744852	100.0%	CATGTGTTGAGATGCGTGACCACGAGCAGCCACAAGATGCACTATGTGCA			
Yoshida	54.9%	CTGCCCTTGAGATGAGAGACTCCGAAACAGCCTGCCAGGGCAAGAGTGCT			
		1401	: 1450		
US09744852	100.0%	CCTGAGAAGTTGGTTAGGCAAGTGGCTTTAGCAACTCA	-GGAAGCTCAAG		
Yoshida	54.9%	CCTCAAGAAACTCGTTCAACAGGTG	-TTGAGCAGCGGATGGAAAGAGTAT		
		1451	5 1500		
US09744852	100.0%	TTCCACTTG	-CTGGGGAGAATGCATTGCCACGATACTGATTATGCAC		
Yoshida	54.9%	ATCGATGTGGCAGGTGAGAATGCACTGCCAAGATACTGATGCCACCGGCATA			
		1501	: 1550		
US09744852	100.0%	TGAACAGATCCTTC	-AGCATCCT	-CATTGAATATCAACCGATCAATCAG	
Yoshida	54.9%	CAACCAAATACTTCTGAAACCTCAGGCCAACGGCGTCAACCTTAACGGCC			
		1551	6 1600		
US09744852	100.0%	GTGATAGAG	-AGATGTGCGCTTACATATTTGAGGATGAATCCTGA		
Yoshida	54.9%	CTCCCA	-AGCTCAAGATGTCGGCTTACATATCTCCGTTCTCGGACGA		
		1601	: 1650		
US09744852	100.0%	CCTATTCCATCCTGATAACTGGAGGCGATTGTTGCCT	-TCGTGAAGAAA		
Yoshida	54.9%	TCTGTTACAGACAGACA	ACTTCGAACAGAAATTCTGTCAGAACAGAAGA		
		1651	7 1700		
US09744852	100.0%	TGAAAGAAGGAAAAGACGCAAACA	-AATGCCGGAA	-CAAGTAGAGAGG	
Yoshida	54.9%	TGCACGGCTGATCTGGATCCATC	CCCCAACGCTATCTCTCCCGGTGTTG		
		1701	: 1750		
US09744852	100.0%	GAGGCAGAGCATT	-TCGTGCAT	-ATAACTCAGCCGTTAGT	-GCAAGA
Yoshida	54.9%	GAG	-AGATCAAACCTCGGCCATC	ACCAATTGATGAACTGATGCAAGCCACC	
		1751	8 1800		
US09744852	100.0%	AGCTGCAGCTGCCCT	-CATGCACTAA	-	
Yoshida	54.9%	AAAGCTAGCAGGCCATTCC	CATGGTATGACGTACAGACATGCCGGTGGAA		
		1801] 1822		
US09744852	100.0%	TGGCTCAAACCGTTGATTGA			
Yoshida	54.9%				

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